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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/823,414	03/31/2001	Scott Cordner	0325,00459	0325.00459 3236 EXAMINER	
21363	7590 10/04/2004		EXAM		
CHRISTOF 24840 HARI	PHER P. MAIORANA	DANG, KHANH			
	SHORES, MI 48080		ART UNIT	PAPER NUMBER	
	,		2111		
			DATE MAILED: 10/04/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summers	09/823,414	CORDNER, SCOTT				
Office Action Summary	Examiner	Art Unit				
	Khanh Dang	2111				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 09 Au	ugust 2004.					
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closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the Education of the Education of by the Education of the drawing (s) is objected if the drawing (s) is objected if the drawing (s) is objected if the drawing (s) is objected in the drawing (s) is objected in the drawing (s) is objected in the drawing (s) is objected to by the Education of the drawing (s) is objected to by the Education of the Educati	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

Art Unit: 2111

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-8, 10-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Silverman et al.

At the outset, it is noted that similar claims will be grouped together to avoid repetition in explanation.

As broadly drafted, these claims do not define any structure/step that differs from Silverman et al. With regard to claims 1, 2, and 12, Silverman et al. discloses an apparatus for coupling a peripheral device to a host comprising: an interface circuit (USB Interface 204, for example) configured to receive a request from the host (also "host" in Silverman et al.) and present a response to the host; and a serial interface engine (SIE 206, for example) configured to generate said response (received via USB

Art Unit: 2111

interface 204) to said request when the request is a first type of request (standard USB request) that the serial interface engine (SIE 206, for example) is configured to recognize and pass the request from the interface circuit to an external circuit (208, for example) and the response to the request from the external circuit (208) to the interface circuit (204) when the request is a second type of request (non-standard USB request) that the serial interface engine (SIE 206, for example) is not configured to recognize. See also Figs. 3 and 4 and description thereof.

With regard to claims 3 and 4, it is clear that the external circuit optionally comprises an ASIC. With regard to claim 5, it is clear that the apparatus comprises a universal serial bus (USB) peripheral device (also "peripheral" in Silverman).

With regard to claim 6, the logic circuit (see above) is configured to generate the response to the request using information received from the external circuit (208, for example). See also Figs. 3 and 4 and description thereof).

With regard to claim 7, it is clear that the USB device of Silverman must strictly adhere to USB Protocol set forth in the standard USB Specification. Therefore, a descriptor table must be used in Silverman et al.

With regard to claim 8, it is clear that the USB device of Silverman must strictly adhere to USB Protocol set forth in the standard USB Specification. Therefore, an enumeration request must be performed in Silverman et al.

With regard to claim 10, it is clear from Silverman that the logic circuit (see above) is configured to pass to the external circuit (208) a request selected from the

Art Unit: 2111

group consisting of a class request, a vendor request, a custom driver request, and requests implemented to support USB specification changes and enhancements.

With regard to claim 11, the USB device of Silverman must strictly adhere to USB Protocol set forth in the standard USB Specification. Therefore, the response from the external circuit to USB interface circuit to host must comprise a so-called "stall" signal.

The handshake can be either:

- ACK: the request is "serviceable."
- NAK: the request is not "serviceable."
- STALL: The specific endpoint is halted or the specific SETUP command is not supported.

With regard to claims 13-20, it is clear that one using the apparatus of Silverman et al. would have performed the same steps set forth in claims 13-20. Note also that the so-called "response" can be passed either directly from the Silverman et al.'s interface circuit or from Silverman et al.'s external circuit.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Art Unit: 2111

Patentability shall not be negatived by the manner in which the invention was made.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Silverman et al.

Silverman et al., as explained above, discloses the claimed invention. However, Silverman does not disclose that the USB "request" conforms to USB 2.0 (chapter 9). It would have been obvious to one of ordinary skill in the art at the time the invention was made to upgrade the USB system of Silverman et al. from USB 1.0 to USB 2.0, since the Examiner takes Official Notice that the use of USB 2.0 is old and well-known; and upgrading the USB system of Silverman et al. from USB 1.0 to USB. 2.0 only involves ordinary skill in the art for the purpose of increasing the data transfer speed, for example. If the Applicants choose to challenge the fact that USB 2.0 is old and well-known, supportive document(s) will be provided upon request.

Response to Arguments

Applicants' arguments filed 8/9/2004 have been fully considered but they are not persuasive.

At the outset, Applicants are reminded that claims subject to examination will be given their broadest reasonable interpretation consistent with the specification. *In re Morris, 127 F.3d 1048, 1054-55 (Fed. Cir. 1997).* In fact, the "examiner has the duty of police claim language by giving it the broadest reasonable interpretation." *Springs Window Fashions LP v. Novo Industries, L.P.,* 65 USPQ2d 1862, 1830, (Fed. Cir. 2003). Applicants are also reminded that claimed subject matter not the specification, is

Art Unit: 2111

the measure of the invention. Disclosure contained in the specification cannot be read into the claims for the purpose of avoiding the prior art. *In re Sporck*, 55 CCPA 743, 386 F.2d, 155 USPQ 687 (1986).

With this in mind, the discussion will focus on how the terms and relationships thereof in the claims are met by the references. Response to any limitations that are not in the claims or any arguments that are irrelevant and/or do not relate to any specific claim language will not be warranted.

The Silverman 102 Rejection:

With regard to claims 1, 12, and 13, Applicant argued that Silverman does not disclose "automatically generate the response to a request when the request is a first type of request that the serial interface engine is configured to recognize." Contrary to Applicant's argument, the transactions between the SIE 206, for example, and the host are standard USB transactions and therefore, must be in full compliance with USB logic according to the standard USB Specification. According to USB logic, transactions can be from host to device and from device to host. Each transaction is composed usually from three phases:

Token phase: the host initiates token indicating the future transaction type.

Data phase: the actual data is transmitted through packet. The data direction matches the direction indicated by the token that was transmitted previously.

Handshake phase: the device will automatically respond by a handshake packet

Art Unit: 2111

indicating the success or failure of the transaction, or in another word, indicating whether the request is serviceable or not.

Thus, it is clear what if the request is a standard USB request the SIE must generate a response, since the standard USB request is recognized by the SIE. See at least column 6, lines 11-19, column 7, lines 6-15, and column 9, line 25-47.

Although it is not argued by the Applicant, it is also noted that Silverman also discloses a technique for interfacing signals to and from devices employing disparate industry standard function. This technique is preferably implemented by combining an ASIC or other custom logic with, for example, a PLD/FPGA on a board, multichip module, or preferably on a single integrated circuit device. The single integrated circuit (IC) chip combines fixed function(s) and standard interfaces such as standard USB interface, and a PLD/FPGA for specific interface/protocol that can be handled by the standard USB interface/protocol. USB transactions are handled by the SIE using standard USB protocol, and other non-USB transaction, unrecognizable by the SIE via USB interface 204 will be handle by the PLD/PGA via the SIE and USB interface.

The 103 Silverman 103 Rejection:

Applicant did not separately argue the 103 Rejection.

Art Unit: 2111

Any inquiry concerning this communication should be directed to Khanh Dang at telephone number 703-308-0211.

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Khanh Dang Primary Examiner